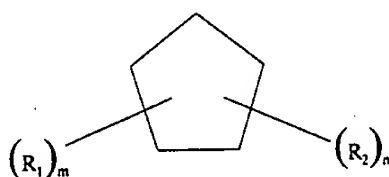


CLEAN COPY OF CURRENTLY PENDING CLAIMS
U.S. APPLICATION SERIAL NO. 09/534,282

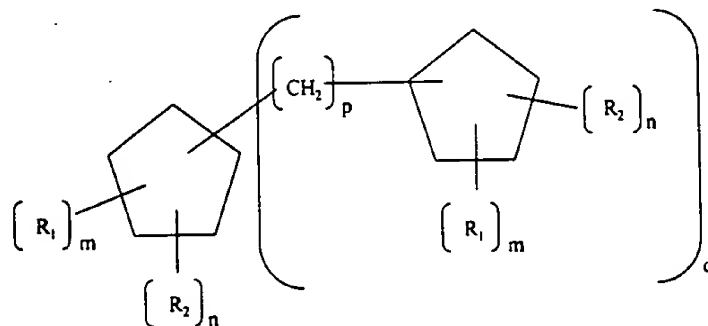
1. A magnetic recording medium, comprising:
 a non-magnetic support;
 a magnetic layer formed on the support; and
 a lubricant layer over the magnetic layer, the lubricant layer includes a hydrocarbyl-substituted cyclopentane as represented by the following formula:



wherein R_1 and R_2 are respectively a hydrocarbyl group, and m and n are respectively zero or a positive integer and the sum of $m + n$ is greater than zero; and

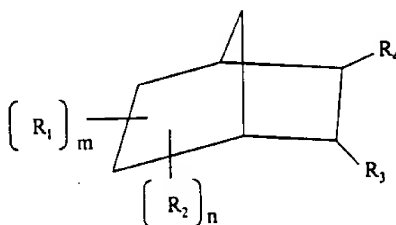
wherein the hydrocarbyl consists of carbon and hydrogen and wherein the hydrocarbyl-substituted cyclopentane comprises at least 29 carbon atoms.

11. The magnetic recording medium of claim 1, wherein the hydrocarbyl-substituted cyclopentane, is represented by the following formula:



wherein p is 1, 2, 3, ..., or 10; q is 1, 2, 3, ..., or 10; m and n are zero or a positive integer;
 R_1 and R_2 are individually a hydrocarbyl group; and
 wherein the hydrocarbyl consists of carbon and hydrogen.

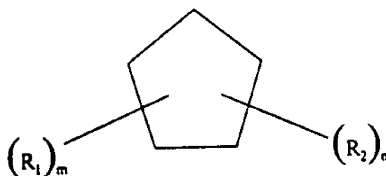
12. The magnetic recording medium of claim 1, wherein the hydrocarbyl-substituted cyclopentane, is represented by the following formula:



wherein m and n are zero or a positive integer; R_1 and R_2 individually are a hydrocarbyl group; R_3 and R_4 individually are hydrocarbyl; and
 wherein the hydrocarbyl consists of carbon and hydrogen.

13. The magnetic recording medium of claim 1, further comprising:
 a protective layer between the magnetic layer and the lubricant layer.

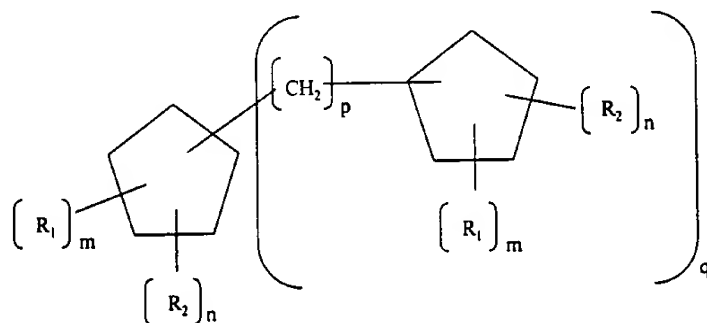
14. The magnetic recording medium of claim 13, wherein the hydrocarbyl-substituted cyclopentane, is represented by the following formula:



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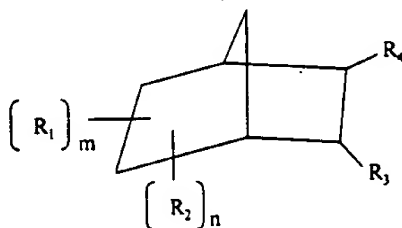
wherein R_1 and R_2 are respectively a hydrocarbyl group, and m and n are respectively zero or a positive integer and the sum of $m + n$ is greater than zero; and
 wherein the hydrocarbyl consists of carbon and hydrogen.

23. The magnetic recording medium of claim 13, wherein the hydrocarbyl-substituted cyclopentane, is represented by the following formula:



wherein p is 1, 2, 3, ..., or 10; q is 1, 2, 3, ..., or 10; m and n are zero or a positive integer;
 R_1 and R_2 are individually a hydrocarbyl group; and
 wherein the hydrocarbyl consists of carbon and hydrogen.

24. The magnetic recording medium of claim 13, wherein the hydrocarbyl-substituted cyclopentane, is represented by the following formula:



wherein m and n are zero or a positive integer; R_1 and R_2 individually are a hydrocarbyl group; R_3 and R_4 individually are hydrocarbyl; and

wherein the hydrocarbyl consists of carbon and hydrogen.

25. A magnetic head, comprising:
 - a head; and
 - a lubricant layer over at least a portion of the head, the lubricant layer comprising a hydrocarbyl substituted cyclopentane; and
 - wherein the hydrocarbyl consists of carbon and hydrogen.
26. A data storage/retrieval device, comprising:
 - a magnetic recording medium including a magnetic layer over a support and a lubricant layer over the magnetic layer, the lubricant layer comprising a hydrocarbyl substituted cyclopentane; and
 - a magnetic head adjacent to the magnetic recording medium, the magnetic head sliding on the magnetic recording medium to read and write information on the magnetic recording medium; and
 - wherein the hydrocarbyl consists of carbon and hydrogen and wherein the hydrocarbyl-substituted cyclopentane comprises at least 29 carbon atoms.
27. The data storage/retrieval device of claim 26, further comprising:
 - a power supply for applying a voltage across the magnetic recording medium and the magnetic head for reading or writing information on the magnetic recording medium.
28. The data storage/retrieval device of claim 26, wherein the device is a computer disk drive.
29. A computer, comprising:
 - a CPU;

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a disk drive connected to the CPU so that the disk drive can communicate with the CPU, the disk drive including:

a magnetic recording medium having a magnetic layer over a support and a lubricant layer over the magnetic layer, the lubricant layer comprising a hydrocarbyl substituted cyclopentane; and

a magnetic head adjacent to the magnetic recording medium, the magnetic head sliding on the magnetic recording medium to read and write information on the magnetic recording medium; and

wherein the hydrocarbyl consists of carbon and hydrogen and wherein the hydrocarbyl-substituted cyclopentane comprises at least 29 carbon atoms.

30. A method of manufacturing a magnetic recording medium, comprising:

providing a non-magnetic support;

forming a magnetic layer on the support; and

forming a lubricant layer over the magnetic layer, the lubricant layer comprising a hydrocarbyl substituted cyclopentane; and

wherein the hydrocarbyl consists of carbon and hydrogen and wherein the hydrocarbyl-substituted cyclopentane comprises at least 29 carbon atoms.

31. The method of claim 30, further comprising:

forming a protective layer on the magnetic layer between the lubricant layer and the magnetic layer.

32. The magnetic recording medium of claim 1, wherein the lubricant layer further comprises one or more additives.

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33. The magnetic recording medium of claim 32, wherein the additives are cyclic phosphazenes, metallic soaps, fatty acids, amides, fatty acid esters, higher aliphatic alcohols, monoalkyl phosphates, dialkyl phosphates, trialkyl phosphates, paraffins, silicone oils, animal oils, vegetable oils, mineral oils, higher aliphatic amines, inorganic fine powders, resin fine powders, unsaturated aliphatic hydrocarbons, or a mixture thereof.
34. The magnetic recording medium of claim 13, wherein the lubricant layer further comprises one or more additives.
35. The magnetic recording medium of claim 34, wherein the additives are cyclic phosphazenes, metallic soaps, fatty acids, amides, fatty acid esters, higher aliphatic alcohols, monoalkyl phosphates, dialkyl phosphates, trialkyl phosphates, paraffins, silicone oils, animal oils, vegetable oils, mineral oils, higher aliphatic amines, inorganic fine powders, resin fine powders, unsaturated aliphatic hydrocarbons, or a mixture thereof.
36. The magnetic recording medium of claim 1, wherein the lubricant layer including a mixture of two or more lubricants; one lubricant is a hydrocarbyl-substituted cyclopentane which is not functionalized; another lubricant is a hydrocarbyl-substituted cyclopentane which is functionalized.
37. The magnetic recording medium of claim 13, wherein the lubricant layer including a mixture of two or more lubricants; one lubricant is a hydrocarbyl-substituted cyclopentane which is not functionalized; another lubricant is a hydrocarbyl-substituted cyclopentane which is functionalized.